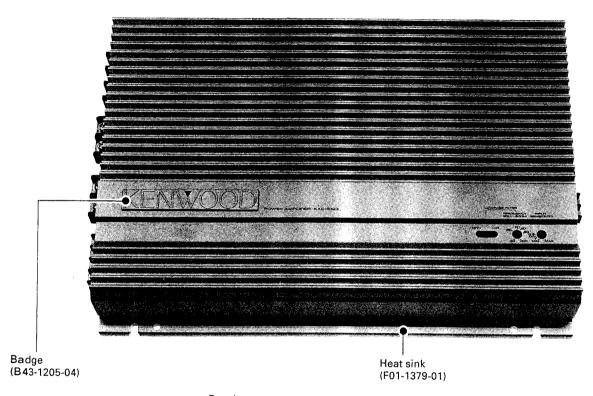
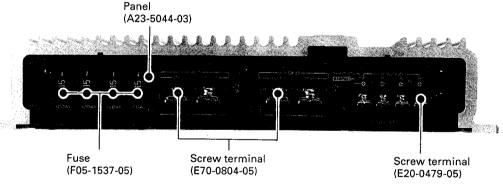
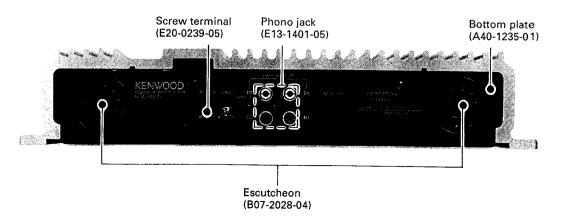
KAC-1023
SERVICE MANUAL

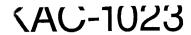
KENWOOD

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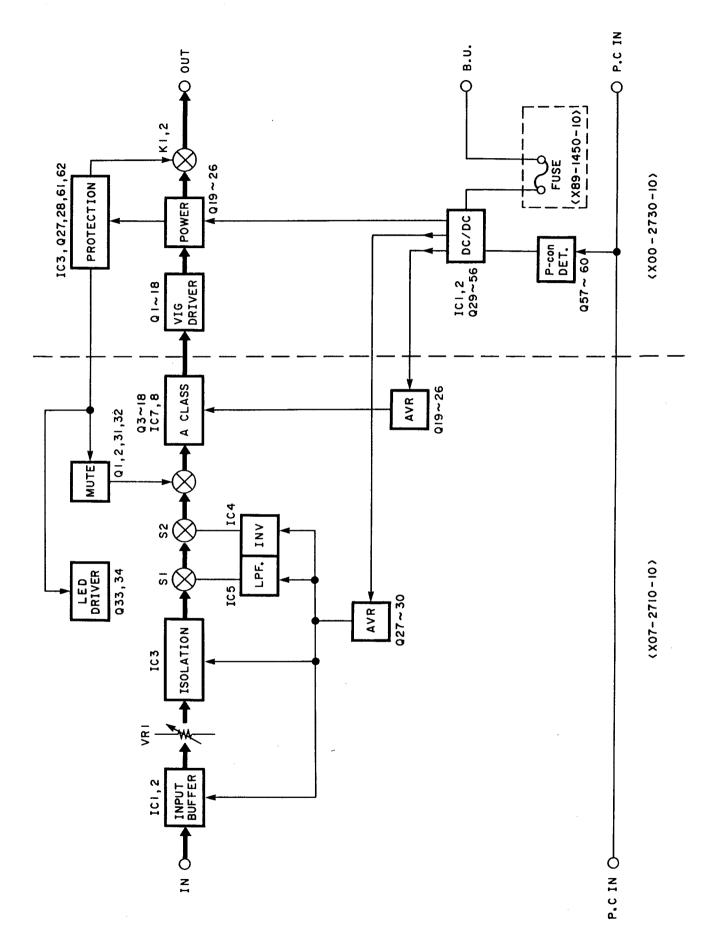




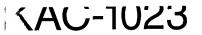
CONTENTS

| CONTENTS | |
|------------------------------|------------|
| BLOCK DIAGRAM | 3 |
| CIRCUIT DESCRIPTION | |
| 1. DESCRIPTION OF COMPONENTS | |
| 2. TWO-COLOR LED | 5 |
| 3. DC/DC CIRCUIT WITH PWM | |
| ADJUSTMENT | 7 |
| PC BOARD (FOIL SIDE VIEWS) | 8 |
| SCHEMATIC DIAGRAM | 11 |
| EXPLODED VIEW | 19 |
| PARTS LIST | 20 |
| | PACK COVED |

BLOCK DIAGRAM



3



CIRCUIT DESCRIPTION

1. Description of components

1-1. Power supply unit (X00-273X-XX 0-10 : K,M 2-71 : E)

| Ref. No. | Use/Function | Operation/Condition/Compatibility |
|----------------|--------------------------|--|
| IC1, 2 | Pulse generator ICs | Generate pulse for DC/DC. |
| IC3 | Protection IC | Performs muting when power is turned ON/OFF. Detection of DC leakage to speaker terminals, |
| | , | detection of DC in case of input grounding failure, muting in ASO detection, relay control and turning |
| | | two-color LED ON/OFF. The controls above are performed when TH1 detects choke coil tempera- |
| | | ture (120°C) or sub-heat-sink temperature (100°C). |
| Q1, 2 | Bias | Temperature compensation of final transistor. |
| Q3~14 | Cascode bootstrap | VIG circuit. |
| Q15~18 | Driver | Final transistor driver. |
| Q19~26 | Power final stage | |
| Q27, 28 | ASO detector | |
| Q29~40 | Switching | DC/DC driver circuit. |
| Q41~56 | Switching | DC/DC power stage. |
| Q57~60 | Switching | P-CON detection. |
| Q61 | Switching | Transfers ASO detection signal to IC3. |
| Q62 | Constant current circuit | Drivers power relay. |
| Q63, 64 | Switching | TH3 detects 60°C and turns ON the fan. |

| Ref. No. | Use/Function | Operation/Condition/Compatibility |
|---------------|--------------------------|---|
| IC1, 2 1/2 | Input buffer | Boosts input signal by +10dB and perfoms balanced transmission. |
| IC1, 2 2/2 | Input buffer inversion | Inverts input signal and performs balanced tramsmission. |
| | stage | |
| IC3 | Isolation amp | |
| IC4 | Inverter IC for BTL | |
| IC5 | LPF | For sub-woofer. |
| IC7, 8 | Class A first stage | |
| Q1, 2 | Input MUTE | Main amplifier input muting transistors. |
| Q3~6 | Class A first stage | |
| Q7~1 0 | Class A second stage | |
| Q11, 12 | Class A cascode | |
| Q13~16 | Class A third stage | |
| Q17, 18 | Class A current mirror | |
| Q19~22 | Constant voltage circuit | For class A control. |
| Q23, 24 | Constant current circuit | Class A ripple elimination circuit. |
| Q25, 26 | Constant current circuit | For class A first stage. |
| Q27~30 | Constant voltage circuit | For balance, ISO, sub-woofer and inverter. |
| Q31, 32 | MUTE driver | Turn muting ON/OFF. |
| Q33, 34 | LED ON/OFF | Green with Q34 ON, then red if Q33 also goes ON. |

CIRCUIT DESCRIPTION

2. Two-color LED

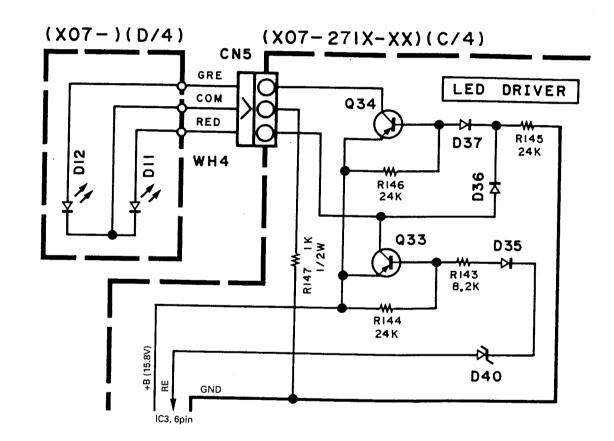
2-1. Basic operation

j.

- ON operations
 Green LED lights when P-CON is turned ON.
 Red LED lights at the same time as relay ON.
- OFF operations
 While P-CON is turned OFF, green LED lights at the same time as relay OFF. The LEDs are OFF in other cases.

2-2. Operation principle

When P-CON is turned ON, DC/DC is activated, turning Q34 (X07) ON via +15.8V AVR (X07, Q27) and lighting D12 (Green) (X07). Then, pin 6 of IC3 (X00) goes Low (0.7V), turning the relay ON and Q33 (X07) ON, also lighting D11 (Red) (X07) while inhibiting Q34 (X07). During operation of protection function (ASO. DC leakage or thermal protection), when pin 6 of IC3 (X00) repeats Low (0.7V) and High (10V), the lighting of Red/Green is also repeated at the same time as the relay ON/OFF.



CIRCUIT DESCRIPTION

3. DC/DC circuit with PWM (K type 0-10 only)

3-1. Basic operation

This circuit detects the voltage of the secondary side of DC/DC (after rectification and smoothing), that is, main amplifier power supply voltage, and controls the switching pulse duration of DC/DC to make the power supply voltage constant regardless of battery voltage and load variations.

3-2. Operation principle

First, let us consider about the variation of the voltage input to DC/DC, BATT (Refer to Fig.1).

There is the following relationship

 $: / +B (-B) / = n2 / n1 \cdot BATT \cdot TON / T$

Assuming that the variation of BATT is Δ BATT, +B (-B) can be a constant voltage by varying the pulse duration according to Δ BATT as shown below

: Δton ≠ ΔBATT / BATT • TON

When +B (-B) varies due to a load condition change (ex

: small power/large power, etc.), +B (-B) can be made a constant voltage by varying Ton according to the change.

For the detection (Fig.1), it is usually only on the NFB (+) side. By detecting the variation of +B (Δ VSENSE) with the error amp, the PWM comparator of the next stage is controlled to control the output pulse duration by varying the sawtooth wave slicing level in terms of DC (internal operation of IC). The operations above allow to control TON so that +B is constant with respect to the variations of +B.

However, as this power is supplied to the audio amp circuitry, the variations of +B and -B are not always identical, making it also necessary to detect -B. When we take NFB (-) in consideration, the variation component of -B with respect to VREF, of the error amp is transferred by C1 and R5 (Fig.1), the voltage of -B is also detected, and ToN is controlled accordingly.

14年中国的教授的 1930年中野市

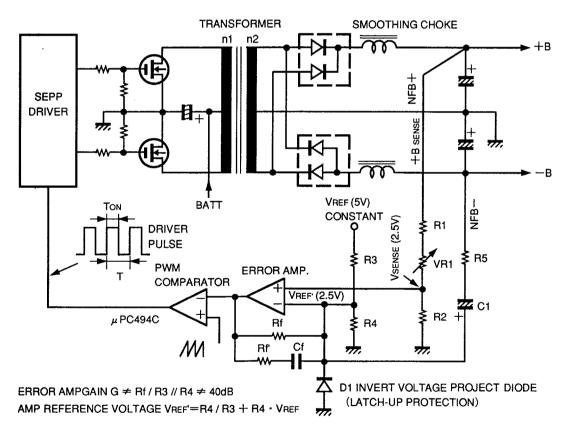
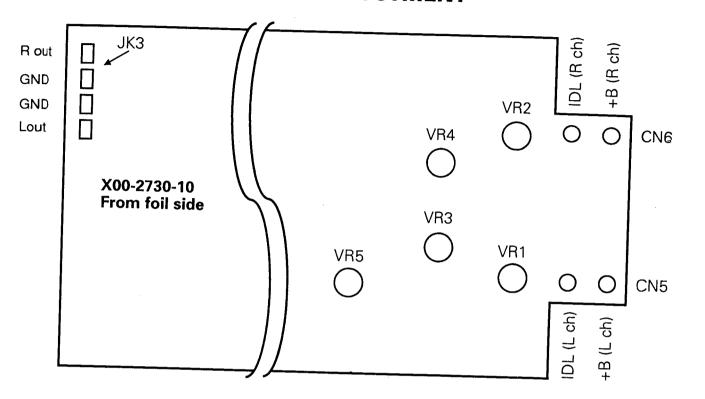


Fig.1

7

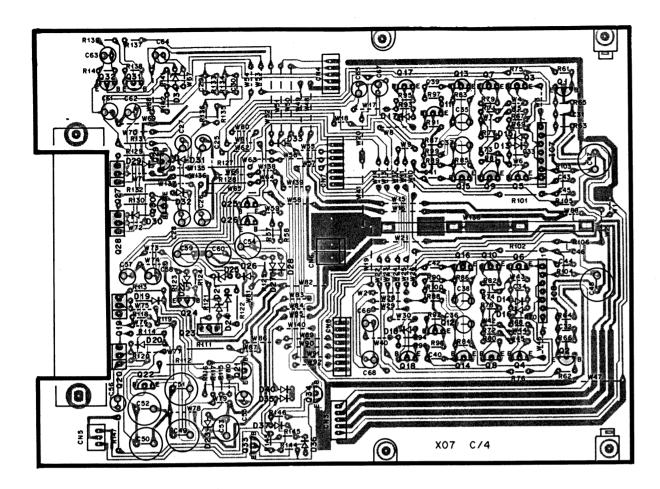
ADJUSTMENT

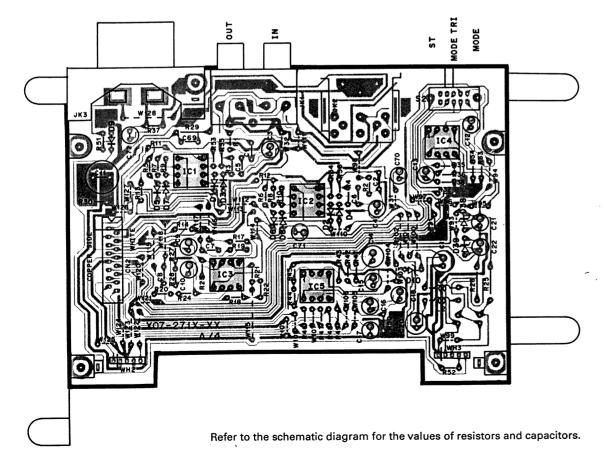


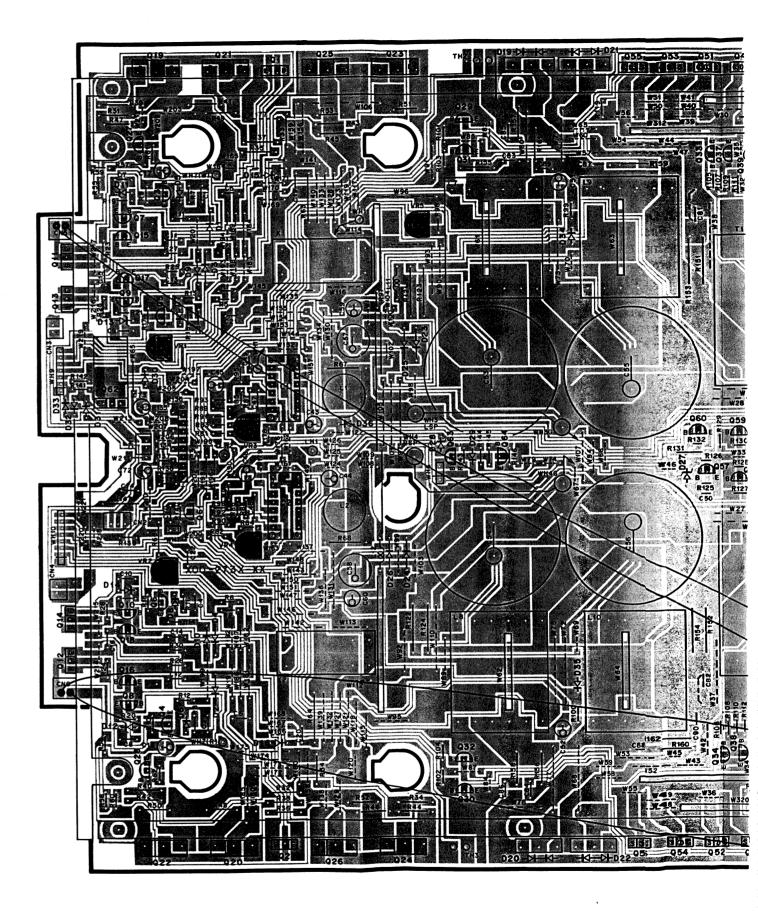
- (1) Idling adjustment (no-signal current)
 Adjust VR1 so that the voltage across IDL (L CH) of CN5 and LOUT of JK3 is 3mV.
 Adjust VR2 so that the voltage across IDL (R CH) of CN6 and ROUT of JK3 is 3mV.
- (2) Voltage adjustment (0-10 destination only)
 Adjust VR3 so that the voltage across +B (L CH) of CN5 and GND is 51.5V.
 Adjust VR4 so that the voltage across +B (R CH) of CN6 and GND is 51.5V.
- (3) DC/DC frequency variation
 The adjustment is normally not necessary. Use VR5 only as occasion calls.

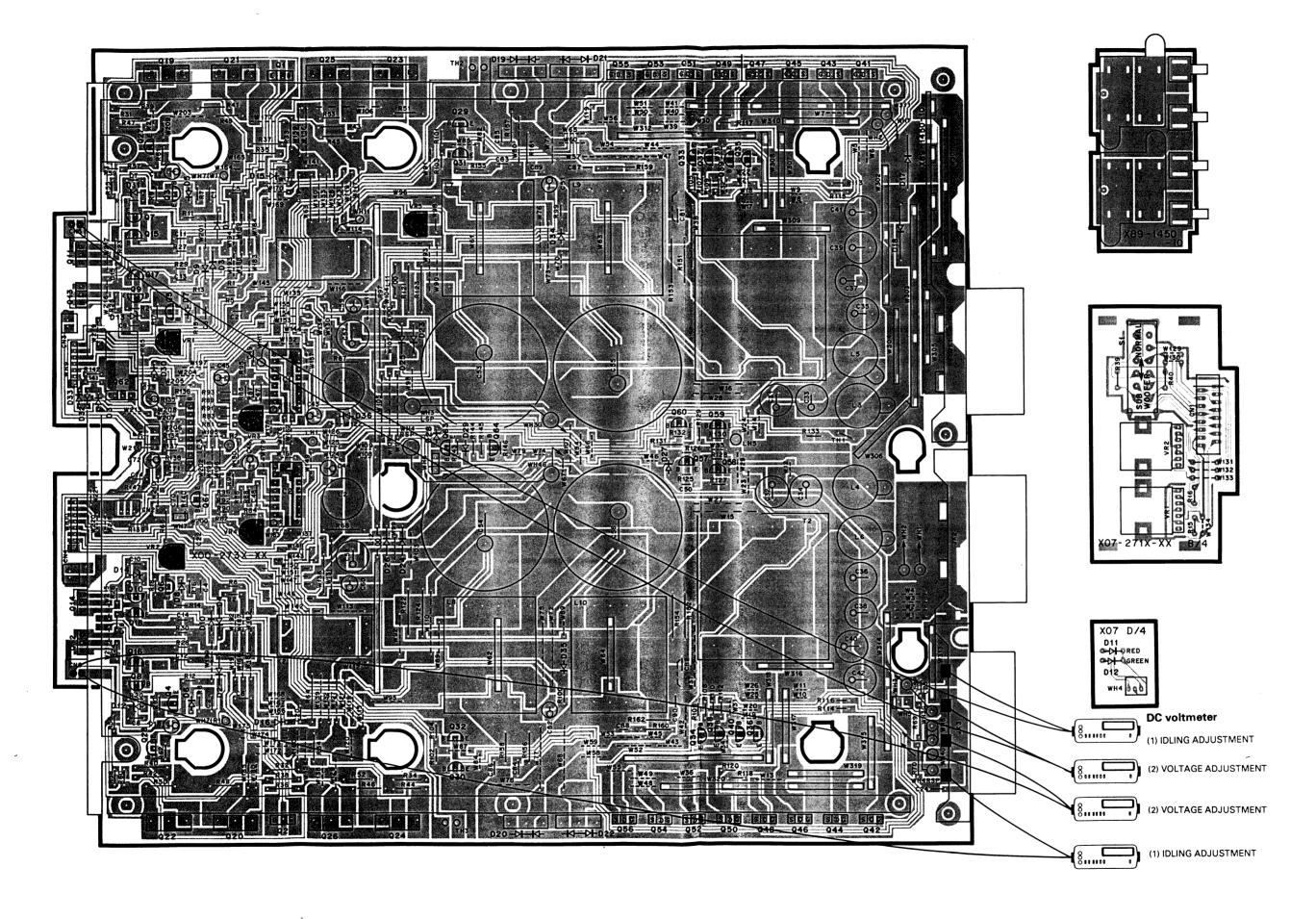


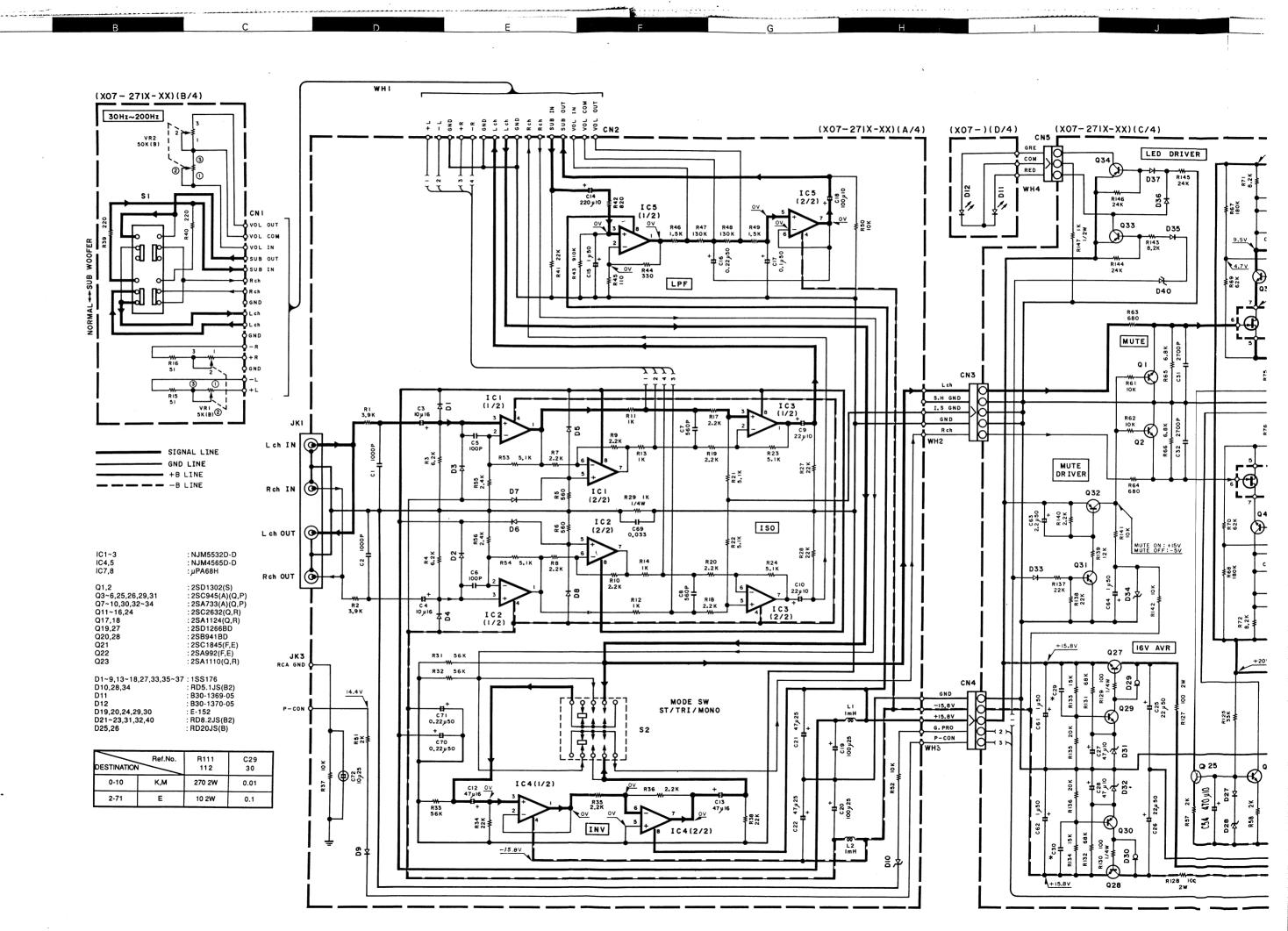
PC BOARD (FOIL SIDE VIEWS)

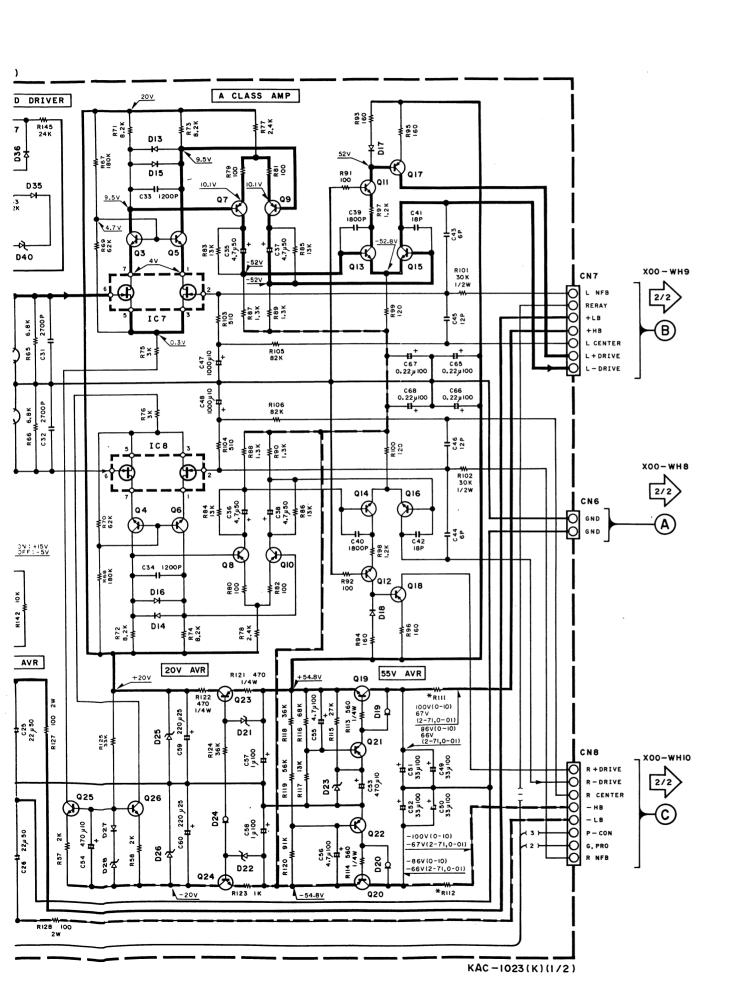












2SA1123 2SC1845 2SA1124 2SC2631 2SA1315 2SC2632 2SA1534A 2SC3940A 2SA733 (A) 2SC945 (A) 2SA992 2SD1302

2SA1110

2SB941BD







2SA1303*5 2SC3284*5

2SC3419









NJM5532D-D

NJM4565D-D

UPC494C







UPC1237HA

UPA68H

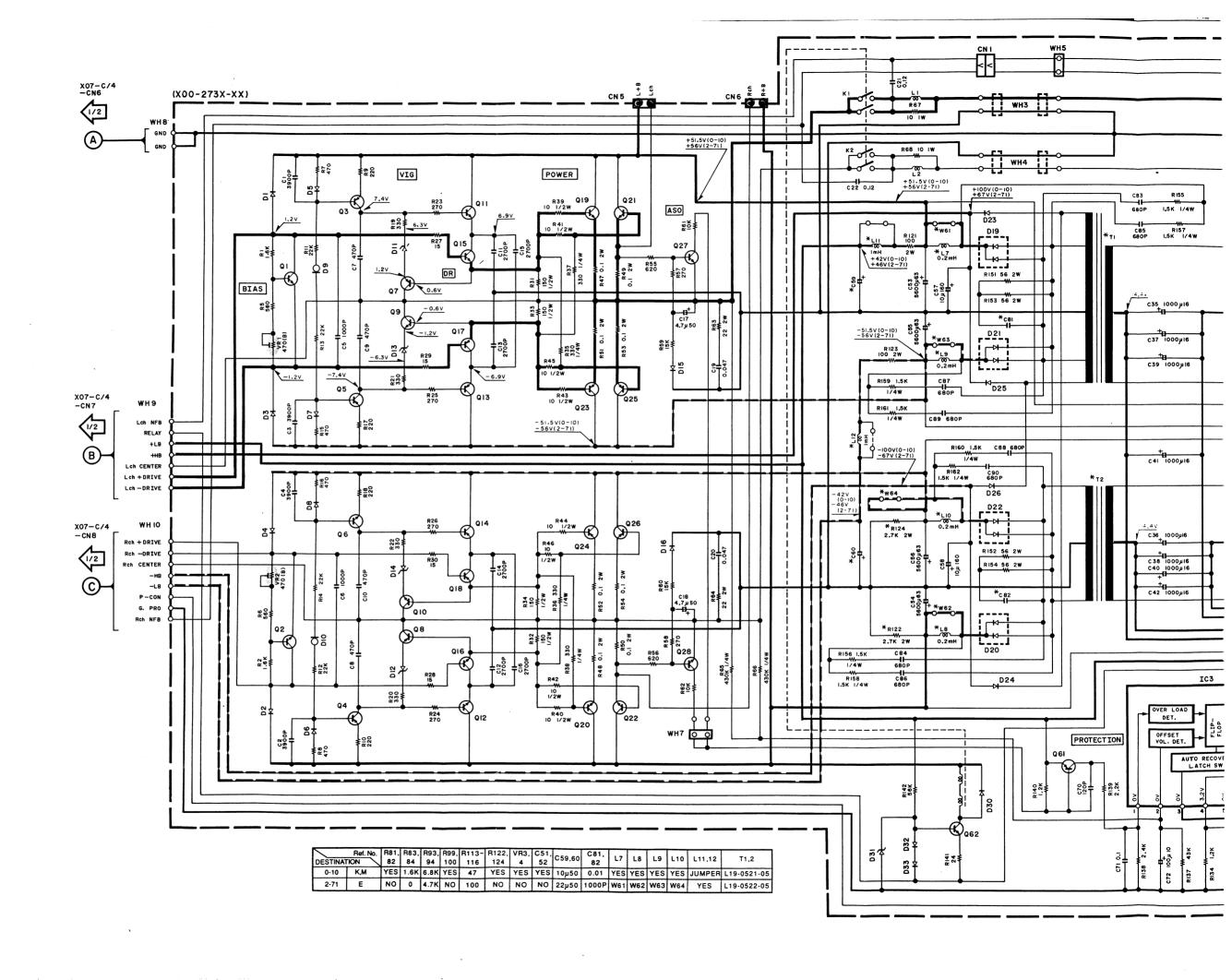


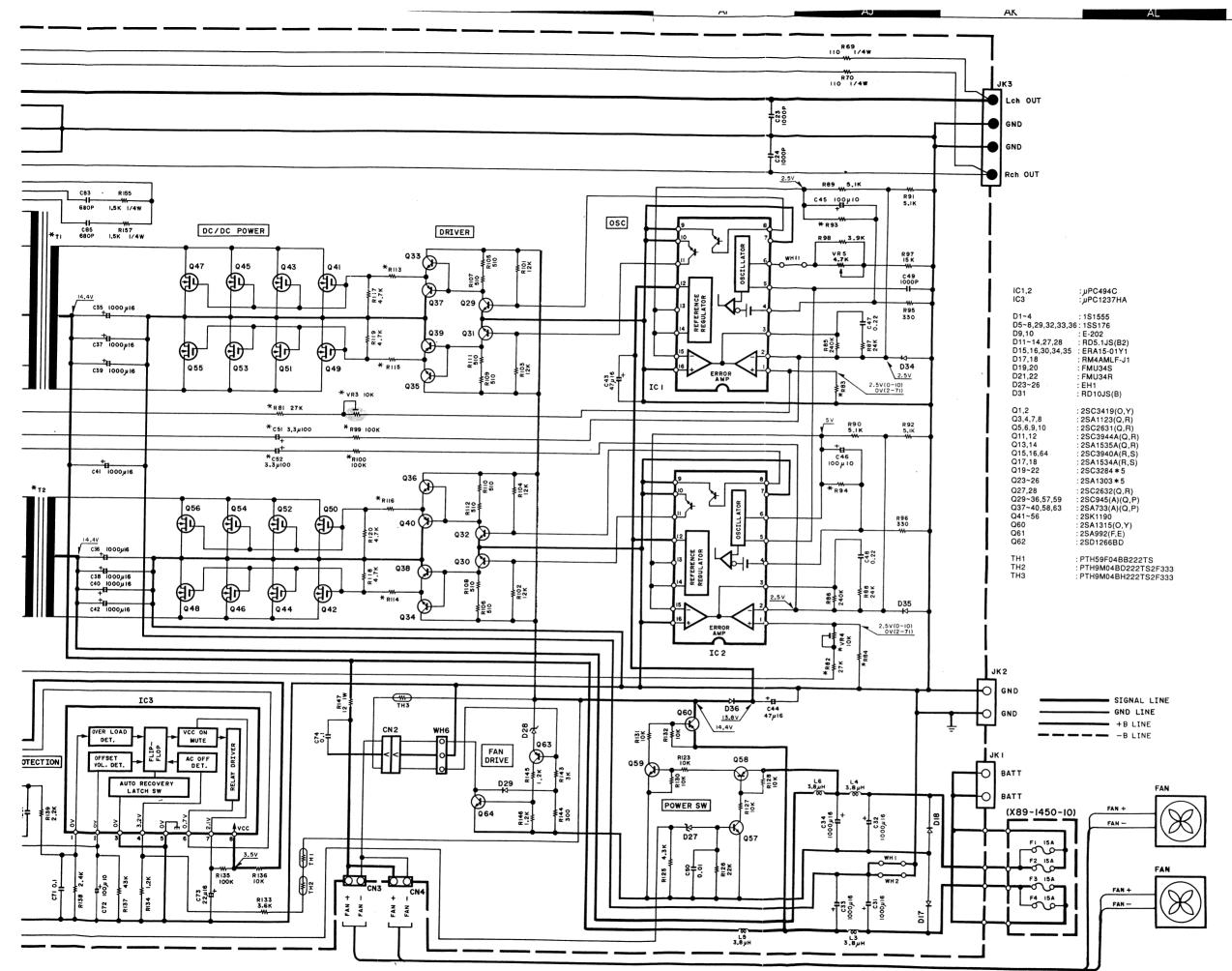
D₁G₁S₁

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). \triangle Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.







 DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

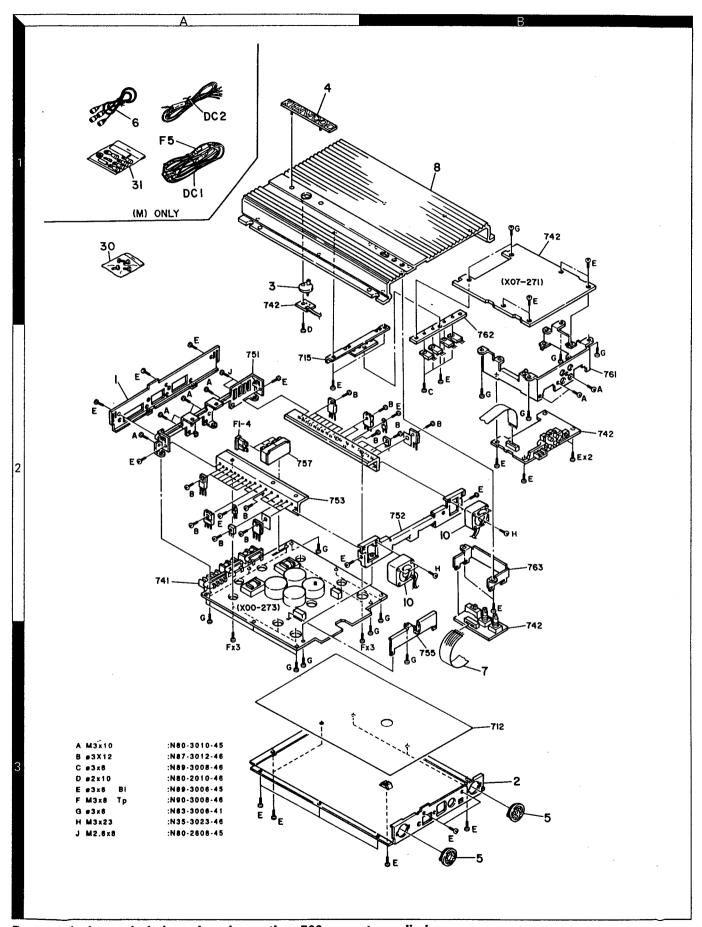
AM

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). \(\Delta\) Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KAC-1023(K)(2/2)

KAC-1023 KENWOOD

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

| Ref. No. | Address | | | Description | Desti- Re- |
|---|-------------------------------|-------------|--|---|----------------------|
| 参照番号 | 位 置 | Parts 新 | 部品番号 | 部. 品 名 / 規 格 | nation mark 仕 向備準 |
| | | | K | AC-1023 | |
| 1 2 | 2A 3B | * | A23-5044-03 A40-1235-01 | PANEL BOTTOM PLATE | |
| 3 4 5 - | 1 A 1 A 3 B | * * * | B19-0886-04 B43-1205-04 B07-2028-04 B44-6006-04 B46-0100-20 | LIGHTING BOARD KENWOOD BADGE ESCUTCHEON POS LABEL WARRANTY CARD | |
| - - - | | * * * | B59-0706-00 B64-0165-00 B64-0166-00 | SUB-INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL | M KM E |
| 6 7 DC1 DC2 | 1 A 3 B 1 A 1 A | * | E30-3839-05 E31-8297-05 E30-2334-05 E30-3583-05 | AUDIO CORD FLAT CABLE DC CORD ASSY DC CORD | M M M |
| 8 10 F5 F1-4 | 1B 2B 1A 2A | * | F01-1379-01 F09-1208-05 F05-3631-08 F05-1537-05 | HEAT SINK FAN FUSE (UL) FUSE (15A) | M |
| - - - | | * | H01-9399-04 H10-4409-02 H25-0223-04 H25-0336-04 | ITEM CARTON CASE POLYSTYRENE FOAMED FIXTURE PROTECTION BAG (750X350X0.03) PROTECTION BAG (170X250X0.03) | |
| 30 D E F H | 1A 1A 2B,3B 1B 2B | * | N99-1577-05 N80-2010-46 N89-3006-45 N90-3008-46 N35-3023-46 | SCREW SET PAN HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW TP HEAD MACHINE SCREW BINDING HEAD MACHIN SCREW | |
| 31 | 1 A | * | W01-0717-05 | ACCESSORY | М |
| C1 -4 | T | PO | WER SUPPLY (X00 CF92FV1H392J | 7-273X-XX) 0-10 : K, M 2-71 : E | |
| C5 ,6 C7 -10 C11 -16 C17 | | | CF92FV1H102J CF92FV1H102J CK45FB1H471K CF92FV1H272J CE04DW1H4R7M | MF 3900PF J MF 1000PF J CERAMIC 470PF K MF 2700PF J ELECTRO 4.7UF 50WV | |
| C18 C19 C20 C21 ,22 | | | CE04DW1H4R7M CF92FV1H473J CF92V1H473J CF92V1H124J CF92V1H102J | ELECTRO 4.7UF 50WV MF 0.047UF J MF 0.047UF J MF 0.12UF J MF 1000PF J | |
| C24 C31 -42 C43 C44 C45 ,46 | | * | CF92FV1H102J C90-2660-05 CE04DW1C470M CE04DW1C470M CE04DW1A101M | MF 1000PF J ELECTRO 1000UF 16WV ELECTRO 47UF 16WV ELECTRO 47UF 16WV ELECTRO 100UF 10WV | |
| C47 ,48 C49 C50 C51 ,52 C53 -56 | | * | CF92V1H224J CF92FV1H102J CF92FV1H103J CE04DW2A3R3M C90-2659-05 | MF 0.22UF J MF 1000PF J MF 0.010UF J ELECTRO 3.3UF 100WV ELECTRO 5600UF 63WV | км |
| 057 ,58 059 ,60 | | * | C90-2661-05 CE04DW1H100M | ELECTRO 10UF 160WV ELECTRO 10UF 50WV | K |

E: Scandinavia & Europe K: USA

W:Europe P: Canada

M: Other Areas

U: PX(Far East, Hawaii) T: England

UE : AAFES(Europe)

X: Australia

★ indicates safety critical components.

PARTS LIST

★ New Parts

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| Ref. No. | Address N | | Description | Desti- Re- |
|---|----------------------------------|--|--|-------------------------------------|
| 参照番号 | I I - | rts 新 部 品 番 号 | 部品名/規格 | Desti- Re- nation marks 仕 向備考 |
| C59 ,60 C70 C71 C72 C73 | | CE04DW1H220M CC45FSL1H121J CF92V1H104J CE04DW1A101M CE04DW1C220M | ELECTRO 22UF 50WV CERAMIC 120PF J MF 0.10UF J ELECTRO 100UF 10WV ELECTRO 22UF 16WV | E |
| C74 C81 ,82 C81 ,82 C83 -90 | * | CF92FV1H104J CK45E2H103P CQ93HP2A102J CQ93HP2A681J | MF 0.10UF J CERAMIC 0.010UF P MYLAR 1000PF J MYLAR 680PF J | KM E |
| JK1 ,2 JK3 | * | E70-0804-05 E20-0479-05 | SCREW TERMINAL BOARD SCREW TERMINAL BOARD(4P) | |
| LH1 ,2 | | J19-2826-05 | HOLDER | |
| L1 ,2 L3 -6 L7 -10 T1 ,2 T1 ,2 | * * | L39-0157-05 L33-0331-05 L33-0989-05 L19-0521-05 L19-0522-05 | PHASE-COMPENSATION COIL CHOKE COIL CHOKE COIL TRANSFORMER FOR CONVERTER TRANSFORMER FOR CONVERTER | KM KM E |
| G | 2A 2A 2A 2A 2A 2A | N80-3010-45 N87-3012-46 N89-3006-45 N83-3006-41 N80-2608-45 | PAN HEAD TAPTITE SCREW BRAZIER HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW | |
| R31 -34 R39 -46 R47 -54 R63 ,64 R67 ,68 | | RD14DB2H151J RD14DB2H100J R92-0205-05 RS14KB3D220J RS14KB3A100J | SMALL-RD 150 J 1/2W SMALL-RD 10 J 1/2W METAL-PLATE 0.1 K 2W FL-PROOF RS 22 J 2W FL-PROOF RS 10 J 1W | |
| R121 R122 R123 R124 R147 | | RS14KB3D101J RS14KB3D272J RS14KB3D101J RS14KB3D272J RS14DB3A120J | FL-PR00F RS 100 J 2W FL-PR00F RS 2.7K J 2W FL-PR00F RS 100 J 2W FL-PR00F RS 2.7K J 2W FL-PR00F RS 12 J 1W | KM KM |
| R151-154 VR1 ,2 VR3 ,4 VR5 | | RS14KB3D560J R12-0094-05 R12-3096-05 R12-1069-05 | FL-PROOF RS 56 J 2W TRIMMING POT.(470) TRIMMING POT.(10K) TRIMMING POT.(4.7K) | КМ |
| K1 ,2 | * | S76-0804-05 | MAGNETIC RELAY | |
| D1 -4 D5 -8 D9 ,10 D11 -14 D15 ,16 | | 1S1555 1SS176 E-202 RD5.1JS(B2) ERA15-01Y1 | DIODE DIODE CONSTANT CURRENT DIODE ZENER DIODE DIODE | · |
| D17 ,18 D19 ,20 D21 ,22 D23 -26 D27 ,28 | * * * | RM4AMLF-J1 FMU34S FMU34R EH1 RD5.1JS(B2) | DIODE DIODE DIODE DIODE ZENER DIODE | |
| D29 D30 D31 D32 ,33 D34 ,35 | | 1SS176 ERA15-01Y1 RD10JS(B) 1SS176 ERA15-01Y1 | DIODE DIODE ZENER DIODE DIODE DIODE | км |

E: Scandinavia & Europe K: USA

P: Canada

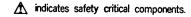
W:Europe

U: PX(Far East, Hawaii) T: England

M: Other Areas

UE : AAFES(Europe)

X: Australia



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| D36 IC1 ,2 IC3 Q1 ,2 Q3 ,4 | | | 1SS176 UPC494C UPC1237HA 2SC3419(Y) 2SA1123(Q,R) | DIODE IC(SWITCHING REGULATOR) IC(POWER AMP) TRANSISTOR TRANSISTOR | | |
| Q5 ,6 Q7 ,8 Q9 ,10 Q11 ,12 Q13 ,14 | - | | 2SC2631(Q,R) 2SA1123(Q,R) 2SC2631(Q,R) 2SC3944A(Q,R) 2SA1535A(Q,R) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q15 ,16 Q17 ,18 Q19 -22 Q23 -26 Q27 ,28 | | | 2SC3940A(R,S) 2SA1534A(R,S) 2SC3284*5 2SA1303*5 2SC2632(Q,R,S) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | : |
| Q29 -36 Q37 -40 Q41 -56 Q57 Q58 | | * | 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SK1190 2SC945(A)(Q,P) 2SA733(A)(Q,P) | TRANSISTOR TRANSISTOR FET TRANSISTOR TRANSISTOR | | |
| Q59 Q60 Q61 Q62 Q63 | | | 2SC945(A)(Q,P) 2SA1315 2SA992(F,E) 2SD1266BD 2SA733(A)(Q,P) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q64 TH1 TH2 TH3 | | * | 2SC3940A(R,S) PTH59F04BB222TS PTH9M04BD222T PTH9M04BH222T | TRANSISTOR POSITIVE RESISTOR POSITIVE RESISTOR POSITIVE RESISTOR | | |
| | | | | 71X-XX) 0-10 : K, M 2-71 : E | 1 | |
| D11 D12 | | * | B30-1369-05 B30-1370-05 | LED | | |
| C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10 | | | CF92FV1H102J CE04DW1C100M CK45FB1H101K CK45FB1H561K CE04DW1C470M | MF 1000PF J ELECTRO 10UF 16WV CERAMIC 100PF K CERAMIC 560PF K ELECTRO 47UF 16WV | | |
| C12 ,13 C14 C15 C16 C17 | | | CE04DW1C470M CE04DW1A221M CE04DW1H010M CE04DW1HR22M CE04DW1HOR1M | ELECTRO 47UF 16WV ELECTRO 220UF 10WV ELECTRO 1.0UF 50WV ELECTRO 0.22UF 50WV ELECTRO 0.1UF 50WV | | |
| C18 C19 ,20 C21 ,22 C25 ,26 C27 ,28 | | | CE04DW1A101M CE04DW1E101M CE04DW1E470M CE04DW1H220M CE04DW1A470M | ELECTRO 100UF 10WV ELECTRO 100UF 25WV ELECTRO 47UF 25WV ELECTRO 22UF 50WV ELECTRO 47UF 10WV | | |
| C29 ,30 C29 ,30 C31 ,32 C33 ,34 C35 -38 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | CF92FV1H103J CF92FV1H104J CF92FV1H272J CF92FV1H122J CE04KW1H4R7M | MF 0.010UF J MF 0.10UF J MF 2700PF J MF 1200PF J ELECTRO 4.7UF 50WV | K E | |
| C39 ,40 C41 ,42 | | | CF92FV1H182J CC45FSL1H180J | MF 1800PF J CERAMIC 18PF J | | |

E: Scandinavia & Europe K: USA

P: Canada W:Europe

U: PX(Far East, Hawaii) T: England

M: Other Areas

UE : AAFES(Europe) X: Australia

PARTS LIST

* New Parts

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| Ref. No. | Address | | Parts No. | Description | | e- arks |
|---|----------------|------------|---|---|---------|------------|
| 参照番号 | 位置 | Parts 新 | 部品番号 | 部品名/規格 | 仕 向 1 | |
| C43 ,44 C45 ,46 C47 ,48 C49 -52 C53 ,54 | | * | CC45FSL1H060D CC45FSL1H120J C90-1643-05 CE04DW2A330M CE04KW1A471M | CERAMIC 6.0PF D CERAMIC 12PF J ELECTRO 1000UF 6.3WV ELECTRO 33UF 100WV ELECTRO 470UF 10WV | | |
| C55 ,56 C57 ,58 C59 ,60 C61 ,62 C63 | | | CE04DW2A4R7M CE04DW2A010M CE04KW1E221M CE04DW1H010M CE04DW1H2R2M | ELECTRO 4.7UF 100WV ELECTRO 1.0UF 100WV ELECTRO 220UF 25WV ELECTRO 1.0UF 50WV ELECTRO 2.2UF 50WV | | |
| C64 C65 -68 C69 C70 ,71 C72 | | * | CE04DW1H010M CE04DW2AR22M CF92FV1H333J CE04DW1HR22M CE04BW1E100M | ELECTRO 1.0UF 50WV ELECTRO 0.22UF 100WV MF 0.033UF J ELECTRO 0.22UF 50WV NP-ELEC 10UF 25WV | | |
| JK1 JK3 | | * | E13-1401-05 E20-0239-05 | PHONO JACK SCREW TERMINAL BOARD(2P) | | |
| L1 ,2 | | | L40-1021-14 | SMALL FIXED INDUCTOR(1MH) | | |
| A C G | 2B 2B 2B | * | N80-3010-45 N89-3008-46 N83-3006-41 | PAN HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW | | |
| R7 -10 R11 -14 R17 -20 R21 -24 R101,102 | | * * * | R92-2102-05 R92-2101-05 R92-2102-05 R92-2103-05 R92-2010-05 | METAL FILM 2.2K D 1/6W METAL FILM 1K D 1/6W METAL FILM 2.2K D 1/6W METAL FILM 5.1K D 1/6W CARBON FILM 330K J 1/2W | | |
| R111,112 R111,112 R127,128 R147 VR1 | | * | RS14KB3D100J RS14KB3D271J RS14KB3D101J RD14DB2H102J R10-2622-05 | FL-PROOF RS 10 J 2W FL-PROOF RS 270 J 2W FL-PROOF RS 100 J 2W SMALL-RD 1.0K J 1/2W POTENTIOMETER(5K) | E KM | |
| VR2 | | * | R10-4645-05 | POTENTIOMETER(50K) | | |
| S1 S2 | | * | S62-0810-05 S31-2630-05 | SLIDE SWITCH SLIDE SWITCH | | |
| D1 -9 D10 D13 -18 D19 ,20 D21 -23 | | | 1SS176 RD5.1JS(B2) 1SS176 E-152 RD8.2JS(B2) | DIODE ZENER DIODE DIODE CONSTANT CURRENT DIODE ZENER DIODE | | |
| D24 D25 ,26 D27 D28 D29 ,30 | | | E-152 RD20JS(B) 1SS176 RD5.1JS(B2) E-152 | CONSTANT CURRENT DIODE ZENER DIODE DIODE ZENER DIODE CONSTANT CURRENT DIODE | | |
| D31 ,32 D33 D34 D35 -37 | | | RD8.2JS(B2) 1SS176 RD5.1JS(B2) 1SS176 RD8.2JS(B2) | ZENER DIODE DIODE ZENER DIODE DIODE ZENER DIODE | | |
| IC1 -3 IC4 ,5 IC7 ,8 | | * | NJM5532D-D NJM4565D-D UPA68H | IC(OP AMP X2) IC(OP AMP X2) DUAL FET | | |

E: Scandinavia & Europe K: USA

W:Europe P: Canada

U: PX(Far East, Hawaii) T: England

M: Other Areas

UE: AAFES(Europe)

X: Australia

⚠ indicates safety critical components.

¥ New Parts

PARTS LIST

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

| | Address Nev | | Description | Desti- Re- |
|--|-------------|--|---|-----------------------|
| 参照番号 | 位置新 | | 部品名/規格 | nation marks 仕 向備考 |
| Q1 ,2 Q3 -6 Q7 -10 Q11 -16 Q17 ,18 | | 2SD1302(S) 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SC2632(Q,R,S) 2SA1124(Q,R,S) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | |
| 919 920 921 922 923 | | 2SD1266BD 2SB941BD 2SC1845(F,E) 2SA992(F,E) 2SA1110(Q,R) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | |
| Q24 Q25 ,26 Q27 Q28 Q29 | | 2SC2632(Q,R,S) 2SC945(A)(Q,P) 2SD1266BD 2SB941BD 2SC945(A)(Q,P) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | |
| Q30 Q31 Q32 -34 | | 2SA733(A)(Q,P) 2SC945(A)(Q,P) 2SA733(A)(Q,P) | TRANSISTOR TRANSISTOR TRANSISTOR | |
| - | Y | DAUGHT J13-0070-05 | ER (X89-1450-10) FUSE HOLDER | |
| | | | | |

E: Scandinavia & Europe K: USA

P: Canada W:Europe

U: PX(Far East, Hawaii) T: England

M: Other Areas

UE : AAFES(Europe)

X: Australia



SPECIFICATIONS

| Max power output | |
|---------------------------|---|
| | 600W x |
| : E type | |
| 4Ω bridged : K. M. type | 1200W x |
| : E type : | |
| Rated power output | |
| | 200W x 2 (20Hz ~ 20kHz, less than 0.05% THD |
| 2Ω | 300W x 2 (1kHz, 0.05% THD |
| 4Ω bridged | |
| Frequency response | |
| Signal to noise ratio | 105dE |
| Sensitivity | 10000 |
| Max | 0.15V (rated output |
| Min | |
| Input impedance | |
| Damping factor | |
| Low pass filter frequency | |
| General | |
| Operating voltage | |
| | 12.0V (11 ~ 16 allowable |
| : E type | |
| Current consumption (Max) | 80A |
| Dimensions | W : 273 x H : 56 x D : 400 (mm) |
| | 10-3 / 4 x 2-3 / 16 x 15-3 / 4 (inch) |
| Weight | 10 0 / 4 × 2-5 / 10 × 15-5 / 4 (IIICII) |
| : K, M type | 6.7kg (14.8lb) |
| : E type | 6.5kg (14.3lb) |
| | 0.5kg (14.5lb) |
| Note: | |

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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